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What Is Claimed Is:

1	1. A system 30 for continuously coating cores of gum
2	material comprising:
3	at least one elongated rotating drum member 34 having a first
4	end 33 and a second end 39, said drum member being tilted at an angle relative
5	to horizontal;
6	the cores of gum material 20 being introduced into said drum
7	member at said first end and being removed from said drum member at said
8	second end,
9	a plurality of nozzles 40 positioned in said drum member for
0	applying coating materials on the cores of gum material in said drum as said
1	cores of gum material proceed through said drum member from said first end to
2	said second end; and
3	a supply of heated air 52, said air being introduced into said
4	drum in order to dry the coating materials as they are applied to the cores of
5	gum material;
6	wherein said cores of material are processed in said drum
7	member on a first in-first out basis.
	2. The system as recited in claim 1 wherein at least two
1	•
2	drum members 34 and 34' are provided in series, and wherein said system further comprises a conveyer mechanism 54 for transporting said cores of gum
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4	material from a first drum member to a second drum member.
1	3. The system as recited in claim 1 further comprising a
2	batch-type mixer mechanism 12 for providing an initial coating of material on
3	said cores of gum material before they are introduced into said drum member.
1	4. The system as recited in claim 1 wherein said coating

1		5.	The system as recited in claim 1 wherein said coating
2	materials 50 ar	re in a	dry powder form.
1		6.	A method for continuously coating cores of gum material
2	comprising:		
3		(a)	continuously introducing cores of gum material 20 into
4	an inlet end 33	ofar	otating drum member 34;
5		(b)	transporting the cores of gum material from said inlet end

- 6 33 to an outlet end 39 of said drum member;
- 7 applying a coating material 50 on said cores of gum 8 material inside said drum member;
- 9 drying said coating cores of gum material by circulation of heated air 52 inside said drum member; and 10
- 11 (e) inclining said drum member relative to the horizontal in 12 order to insure that the first cores of gum material introduced into said inlet end of said rotating drum member are substantially the first cores of gum material to 13 14 be exhausted from said outlet end of said drum member.
- The method as recited in claim 6 further comprising the 1 7 step of applying at least one initial coating of material on the cores of gum 2 3 material prior to step (a).
- The method as recited in claim 6 wherein at least two 8. drum members 34 and 34' are provided and said method further comprises the 2 3 step of transporting the cores of gum material from a first drum member to a 4 second drum member.
- The method as recited in claim 8 further comprising the 1 9. step of changing the formula of said coating material from the coating material 2 3 used to form said at least one initial coating of material to the coating material 4 used to introduce into said drum member.

10. The method as recited in claim 8 further comprising the
step of providing a first formula of coating material used to introduce into said
first drum member and a second and different formula of coating material used
to spray into said second drum member.
11. A method as recited in claim 8 further comprising the
step of providing drying air into said first drum member at a lower temperature
than the drying air introduced into said second drum member.
12. A method as recited in claim 6 wherein said coating
materials are applied by spraying in a liquid form.
mutoting at approa of spraying in a riquite room.
13. A method for continuously coating individual pieces of
gum material comprising:
introducing scored sheets of gum material into a mixer;
rotating said mixer to break up the sheets of gum material into
individual pieces of gum material;
transferring the individual pieces of gum material into a first
rotating drum member having an inlet end and an outlet end;
transporting the individual pieces of gum material from said inlet
end to said outlet end;
applying at least a plurality of first coatings of a first material on
said individual pieces of gum material in said first rotating drum member;
cooling the individual pieces of gum material in said first
rotating drum member with air at a first temperature to prevent the individual
pieces from sticking together;
inclining the first rotating drum member with a sufficient extent
to insure that the first individual pieces of gum material introduced into said
inlet end are substantially the first pieces of gum material to be exhausted from
the outlet end;
transferring the individual pieces of gum material to a second
rotating drum member having an inlet end and an outlet end;

21	transporting said individual pieces of gum material from the inlet
22	end to the outlet end of said second rotating drum member;
23	applying at least a plurality of second coatings of a second
24	material on said individual pieces of gum material in said second rotating drum
25	member;
26	drying said individual pieces of gum material in said second
27	rotating drum member by circulation of air therein, said air being heated to a
28	second temperature higher than the temperature of air in the first rotating drum
29	member;
30	inclining said second rotating drum member a sufficient extent to
31	insure that the first individual pieces of gum material introduced in the inlet end
32	of said second rotating drum member are substantially the first piece of gum
33	material to be exhausted from the outlet end of said second rotating drum
34	member;
35	wherein a smooth, thick shell of coating materials is formed on
36	each of said pieces of gum material comparable to coatings formed by batch-
37	type coating processes and in a faster manner.
1	14. A method for continuously coating individual pieces of
2	gum material to provide a smooth, thick shell of coating material thereon,
3	comprising:
4	transferring the individual pieces of gum material into a first
5	rotating drum member having an inlet end and an outlet end;
6	transporting the individual pieces of gum material from said inlet
7	end to said outlet end;
8	applying at least a first coating of a first material on said
9	individual pieces of gum material in said first rotating drum member;
10	cooling the individual pieces of gum material in said first
11	rotating drum member with air at a first temperature to prevent the individual
12	pieces from sticking together;
13	inclining the first rotating drum member with a sufficient extent

to insure that the first individual pieces of gum material introduced into said

J	infet end are substantially the first pieces of gum material to be exhausted from
6	the outlet end;
7	transferring the individual pieces of gum material to a second
8	rotating drum member having an inlet end and an outlet end;
9	transporting said individual pieces of gum material from the inle
0.	end to the outlet end of said second rotating drum member;
1	applying at least a second coating of a second material on said
2	individual pieces of gum material in said second rotating drum member;
:3	drying said individual pieces of gum material in said second
4	rotating drum member by circulation of air therein, said air being heated to a
:5	second temperature higher than the temperature of air in the first rotating drum
6	member;
27	inclining said second rotating drum member a sufficient extent to
8	insure that the first individual pieces of gum material introduced in the inlet end
9	of said second rotating drum member are substantially the first piece of gum
0	material to be exhausted from the outlet end of said second rotating drum
1	member;
32	wherein a smooth, thick shell of coating materials is formed or
3	each of said pieces of gum material comparable to coatings formed by batch-
34	type coating processes in a faster manner.
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1	15. A method for continuously coating cores of gum materia
2	to provide a smooth, thick shell of coating material thereon comprising:
	(a) continuously introducing cores of gum material into an
4 5	inlet end of a rotating drum member;
	(b) transporting the cores of gum material from said inlet end
6	to an outlet end of said drum member;
7	(c) applying a coating material on said cores of gum materia
8	inside said drum member;
9	 (d) drying said coating cores of gum material by circulation

of heated air inside said drum member; and

(e) inclining said drum member relative to the horizontal in
order to insure that the first cores of gum material introduced into said inlet end
of said rotating drum member are substantially the first cores of gum material to
be exhausted from said outlet end of said drum member;
wherein a smooth, thick shell of coating materials is formed on
each of said pieces of gum material comparable to coatings formed by batch-
type coating processes, and in a faster manner.